

WHAT IS CLAIMED IS:

1. A code reading apparatus comprising:
a reading section for optically reading an
optically readable code from a recording medium on
5 which records data as the optically readable code;
an output section for performing an output based
on the outcome of the code reading operation of said
reading section; and
a randomness providing section for providing the
10 outcome of the code reading operation of said reading
section with randomness, thereby providing the output
of said output section based on the outcome of said
code reading operation with randomness.
2. The apparatus according to claim 1, wherein
15 said apparatus is adapted to optically read said
code while one of said apparatus and said recording
medium is held by hand.
3. The apparatus according to claim 2, wherein
said apparatus is adapted to optically read said
20 code while the one of said apparatus and said recording
medium is held by hand and moved relative to each
other.
4. The apparatus according to claim 1, wherein
said randomness providing section includes a
25 parameter detecting/randomness providing section for
providing randomness to the outcome of the code reading
operation by detecting parameters relating to the code

1006423-030102

reading operation.

5 5. The apparatus according to claim 4, wherein
 said parameter detecting/randomness providing
 section includes a detecting/providing section for
providing randomness to the outcome of the code reading
operation by detecting parameters relating to the way
of reading the code.

10 6. The apparatus according to claim 5, wherein
 said detecting/providing section includes a
parameter detecting section for providing randomness to
the outcome of the code reading operation by detecting
parameters relating to the positions of predetermined
components of said code.

15 7. The apparatus according to claim 5, wherein
 said detecting/providing section includes a
parameter detecting section for providing randomness to
the outcome of the code reading operation by detecting
parameters relating to the number of components
detected out of predetermined components of said code.

20 8. The apparatus according to claim 5, wherein
 said detecting/providing section includes a
parameter detecting section for providing randomness to
the outcome of the code reading operation by detecting
parameters relating to the brightness of each of
25 predetermined components of said code.

 9. The apparatus according to claim 5, wherein
 said detecting/providing section includes a

10086422.030102

parameter detecting section for providing randomness to the outcome of the code reading operation by detecting parameters relating to the size of each of predetermined components of said code.

5 10. The apparatus according to claim 5, wherein
 said detecting/providing section includes a
parameter detecting section for providing randomness to the outcome of the code reading operation by detecting parameters relating to the shape of each of
10 predetermined components of said code.

 11. The apparatus according to claim 5, wherein
 said detecting/providing section includes a
parameter detecting section for providing randomness to the outcome of the code reading operation by detecting
15 parameters relating to the missing information on the
components missing from said read code.

 12. The apparatus according to claim 5, wherein,
 if said apparatus is adapted to optically read
said code while one of said apparatus and said
20 recording medium is held by hand and moved relative to
each other,

 said detecting/providing section includes a
parameter detecting section for providing randomness to the outcome of the code reading operation by detecting
25 parameters relating to the relative moving speed of
said apparatus and said recording medium.

 13. The apparatus according to claim 5, wherein,

10086422.030102

if said apparatus is adapted to optically read said code while one of said apparatus and said recording medium is held by hand and moved relative to each other;

5 said detecting/providing section includes a parameter detecting section for providing randomness to the outcome of the code reading operation by detecting parameters relating to the meandering motion during the relative movement of said apparatus and said recording
10 medium.

14. The apparatus according to claim 5, wherein,
if said apparatus is adapted to optically read said code while one of said apparatus and said recording medium is held by hand and moved relative to
15 each other,

 said detecting/providing section includes a parameter detecting section for providing randomness to the outcome of the code reading operation by detecting parameters relating to the directions of the relative
20 movements of said apparatus and said recording medium.

15. The apparatus according to claim 5, wherein,
if said apparatus is adapted to optically read said code while one of said apparatus and said recording medium is held by hand and moved relative to
25 each other,

 said detecting/providing section includes a parameter detecting section for providing randomness to

10086422.030102

the outcome of the code reading operation by detecting parameters relating to the number of times of relative movements of said apparatus and said recording medium.

10086422.030102
5 16. The apparatus according to claim 4, wherein
said parameter detecting/randomness providing
section includes a detecting/providing section (203)
for providing randomness to the outcome of the code
reading operation by detecting parameters relating to
the environment of said code reading operation.

10 17. The apparatus according to claim 1, wherein
said randomness providing section includes a
detecting/providing section for providing randomness to
the outcome of the code reading operation by detecting
parameters relating to said recording medium.

15 18. The apparatus according to claim 17, wherein
said detecting/providing section includes a
parameter detecting section for providing randomness to
the outcome of the code reading operation by detecting
parameters relating to the positional relationship of
20 predetermined components of said code.

19. The apparatus according to claim 17, wherein
said detecting/providing section includes a
parameter detecting section for providing randomness to
the outcome of the code reading operation by detecting
25 parameters relating to the recording density of said
code.

20. The apparatus according to claim 17, wherein

said detecting/providing section includes a parameter detecting section for providing randomness to the outcome of the code reading operation by detecting parameters relating to the size of said code.

5 21. The apparatus according to claim 17, wherein
 said detecting/providing section includes a parameter detecting section for providing randomness to the outcome of the code reading operation by detecting parameters relating to the shape of said code.

10 22. The apparatus according to claim 17, wherein
 said detecting/providing section includes a parameter detecting section for providing randomness to the outcome of the code reading operation by detecting parameters relating to the missing information on the
15 components missing from said recorded code.

 23. The apparatus according to claim 1, wherein
 said randomness providing section includes a detecting/providing section for providing randomness to the outcome of the code reading operation by detecting
20 parameters specific to the code reading apparatus
 itself.

 24. The apparatus according to claim 23, wherein
 said detecting/providing section includes a parameter detecting section for providing randomness to
25 the outcome of the code reading operation by detecting parameters relating to the positions for detecting predetermined components of said code.

1008642.030102

25. The apparatus according to claim 23, wherein
said detecting/providing section includes a
parameter detecting section for providing randomness to
the outcome of the code reading operation by detecting
5 parameters relating to the lightness used for said code
reading operation.

26. The apparatus according to claim 23, wherein
said detecting/providing section includes a
parameter detecting section for providing randomness to
10 the outcome of the code reading operation by detecting
parameters relating to the size of said read code.

27. The apparatus according to claim 23, wherein
said detecting/providing section includes a
parameter detecting section for providing randomness to
15 the outcome of the code reading operation by detecting
parameters relating to the shape of said read code.

28. The apparatus according to claim 23, wherein
said detecting/providing section includes a
parameter detecting section for providing randomness to
20 the outcome of the code reading operation by detecting
parameters relating to the missing information on the
components missing from said read code.

29. The apparatus according to claim 1, wherein
said randomness providing section includes a
25 parameter detecting section for providing randomness to
the outcome of the code reading operation by detecting
parameters relating to the positional relationship of

10086422.030102

predetermined components of said code.

30. The apparatus according to claim 1, wherein
said randomness providing section includes a
parameter detecting section for providing randomness to
5 the outcome of the code reading operation by detecting
parameters relating to the brightness of each of
predetermined components of said code.

31. The apparatus according to claim 1, wherein
said randomness providing section includes a
10 parameter detecting section for providing randomness to
the outcome of the code reading operation by detecting
parameters relating to the size of each of
predetermined components of said code.

32. The apparatus according to claim 1, wherein
15 said randomness providing section includes a
parameter detecting section for providing randomness to
the outcome of the code reading operation by detecting
parameters relating to the shape of each of
predetermined components of said code.

33. The apparatus according to claim 1, wherein
20 said randomness providing section includes a
parameter detecting section for providing randomness to
the outcome of the code reading operation by detecting
parameters relating to the information on the relating
25 to the missing information on the components missing
from said read code.

34. The apparatus according to claim 1, further

10086422.030102

comprising:

memory section for storing a plurality of pieces of information; wherein

5 said randomness providing section includes an output control section for changing the output from said information stored in said memory sections by selecting any of said plurality of pieces of information stored in said memory sections.

10 35. The apparatus according to claim 34, wherein said information stored in said memory section includes at least one of pieces of information in the forms of text, sound, image and program.

15 36. The apparatus according to claim 34, wherein said information stored in said memory section includes a program adapted to select a motion out of a plurality of motions; and

said randomness providing section includes a selecting section for selecting one of said motions.

20 37. The apparatus according to claim 34, wherein said information stored in said memory section includes a program adapted to handle program parameters; and

25 said randomness providing section includes a control section for varying the program parameters to modify the operation of said program.

38. The apparatus according to claim 1, wherein said data recorded on said recording medium as

10086422.030102

optically readable code include a plurality of pieces of information; and

5 said randomness providing section includes an output modifying section for modifying the output from said recorded information by selecting any of said plurality of pieces of information read from said recording medium.

39. The apparatus according to claim 38, wherein
10 said information recorded in said recording medium includes at least one of pieces of information in the forms of text, sound, image and program.

40. The apparatus according to claim 38, wherein
15 said information recorded in said recording medium includes a program adapted to select a motion out of a plurality of motions; and

 said randomness providing section includes a selecting section for selecting one of said motions.

41. The apparatus according to claim 38, wherein
20 said information stored in said recording medium includes a program adapted to handle program parameters; and

 said randomness providing section includes a control section for varying the program parameters to modify the operation of said program.

25 42. An entertainment system comprising:

 an operating section for receiving an operation command from the user;

10086422.030102

an output section for performing at least one of
a display output and a sound output adapted to vary
according to the operation command received by said
operating section;

5 a reading section for optically reading an
optically readable code from a recording medium on
which records data as the optically readable code; and

10 a randomness providing section for providing the
outcome of the code reading operation of said reading
section with randomness at the time of the output
operation of said output section on the basis of the
outcome of the code reading operation of said reading
section, thereby providing the output of said output
section based on the outcome of said code reading
15 operation with randomness.

43. A recording medium comprising:

a part recording data as an optically readable
code; and

20 a part recording no code, wherein
said data recorded as a code includes information
to be provided with randomness and a plurality of
pieces of information to be used for providing
randomness; and

25 the output of said information to be provided with
randomness is varied according to the piece of
information for providing randomness selected from said
plurality of pieces of information as a result of

10086422.030102

an operation of reading said code by a code reading apparatus reading.

44. The medium according to claim 43, wherein
said information contained in said data recorded
5 as optically readable code includes at least one of
pieces of information in the forms of text, sound,
image and program.

45. A recording medium comprising:
a part recording data as an optically readable
10 code; and
a part recording no code, wherein
said data recorded as a code includes information
to be provided with randomness and a programs adapted
to select a motion out of a plurality of motions; and
15 one of said motions is selected to vary the output
of said information to be provided with randomness as
a result of an operation of reading said code by a code
reading apparatus reading.

46. A recording medium comprising:
20 a part recording data as an optically readable
code; and
a part recording no code, wherein
said data recorded as a code includes information
to be provided with randomness and a program adapted to
25 handle program parameters;
said program parameters is varied to vary the
operation of said program and also the output of said

1008642-030102

information to be provided with randomness as a result of an operation of reading said code by a code reading apparatus reading.

10086422.030102